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 President: Phil Seifert (448-7042)
 Secretary: Rick Christianson

Vice President: Dale Pantan
 Treasurer: Jim Dahlberg

JUNE MEETING MINUTES

The meeting was opened, & new officers introduced by King Games (, AKA Phil Seifert. Thanks were given to the outgoing officers for their hard work.

Steve Crowley talked about the new computers (all prototypes) that he saw in Chicago at the Consumer Electronics Show. Since the ATARI 400,800,1200XL, & 810 disk drive are being discontinued the following will be available soon 600XL - \$199 - 16K; 800XL - \$299 - 64K; 1400 - \$650; 1450XLD - less than \$1000 with built in disk drive; 1050 Disk Drive \$450. New printers and other peripherals will also be available.

The Modem Line, #432-3779, is a single user line, so please be sure not to tie up the line unnecessarily. The upload program is on DISK # 15

The treasurer, Jim Dahlberg, reported \$809 in account with \$1600 in property (programs, tv's, computers, power strips, PA system).

Tom Moore reported that there are, effective June 26, 384 members. A red sticker on you newsletter means that your membership is due for renewal.

Bill Nordstrom, Educational Group, related to the group that several new programs and packages (science/lab, Logo, & Disney) will be available soon. Available now is a multi-media presentation. Call 1-800-523-2310 to set up such a presentation for your group.

Next month an Educational Disk of the Month will be available at the meeting. Also at next month's meeting we will have a swap meet at 5:00. At 6:00 during the July meeting there will be workshops for the Advanced Music System and Player Missile Graphics Interest Group.

In August there will be a Modem information seminar.

Several members reported that their 410 upgrades were working well. Contact Rick Christian, 771-5269, for more information.

Special Notice: All Atari software at On-line, 20-50% off.

PROGRAM LIBRARY

BY WV

I think I had better provide an accurate disk listing for (June 83) as there was an error in the listing in the last newsletter. I better watch out ... no more errors since I heard the KING had decreed ordering a chopping block at the close of our last meeting.

Here is the correct (June 83) listing.

GRAPHMODE	Graphic display
SUPSLOTS.B01	Slot game
ALIENCAP.TUR	Capture enemy ship
PAINTDUE.16K	Duel with big bird
MAILMAN	Delivering mail
MATCHKIDS	High number math
FUNCPLOT.UTL	Neat graphics
TREASURE	Find lost treasure
STARDSTR	Penetrate star system
PROGRAM.NO	Prime number program
FALCON	Spaceship
SPELLBEE	Spelling game
PRICE	Guessing game
MAGIC	Magic trick
JAZZ	Graphics display
MAGBLK.GAM	Try it and see

Disk #21 (July 83) will have the following programs.

XMODEM43.COM	Modem utility
SUPRDUP.COM	Another utility
ESCAPE	Fly space ships to safety
REVERSE	Guess order of random #'s
ZONEX	Find hidden intersection
PACINVAD.BAS	Shoot down invaders
RECKLESS	How good can you drive?
METSTRM	Avoid meteor storm
NEWCLOCK.B01	Guess time on huge clock
PETALS.BAS	Guessing game with flower
SHOWDOWN.BAS	Exciting duel game
OMAZE.BAS	Avoid getting hit
DRAW.BAS	How fast can you draw

Well, that does it this month ... I hope there are no errors ... HMMMMMMMM, I wonder if I could become a court jester.....? Or hide the chopping block instead...better yet I could become robin hood.

See you at the next meeting

FOR SALE

861-1893

KEYPADS- make numeric entry easy.....\$25
 LIGHTPENS- with software to correct wrap around
 and LSBit.....\$29
 DATA CASSETTES- 10 min data quality....6 for \$5

ATARI MUSIC

by Mike Davis

As mentioned in last month's article, here is a directory listing of Music Composer files. Since I didn't generate any of these music files, I don't know very many of the proper titles. So I'll just list the directory verbatim.

Music Composer Files

CHURCH1	CLASSICA	ALLEYCAT	CHURCH2
ALLGOODP	KILLERQ	ARIABYDS	ENTERTNR
BOUREE	SOLACE	AMFUGA	PASTORAL
SONATADS	SALLY	NEVERMOR	LILYOFV
SEVENSEA	HALLMKIN	ANITRA	PRINCESS
MARKETPL	JCSUPER	THESTING	FIFTH
BACHCOR	STARWARS	CANTINA	JOY
ROWYOUR	LULLABY	JESUSJOY	GREENSLE
NIGHT	WILLIAM	GOTELLIT	BARENEC
FUGUES	F23	WINDY	

At last month's meeting, I realized a short coming of my system. I have NO cassette capability. I can make disk copies only. A copy of these files will be put in the club library. Maybe Wayne or his assistants could make cassette copies.

As for A.M.S., we have some new music contributions to our A.M.S. library. Bruce Lentz contributed "Basin Street Blues", "South Pacific (Bali Hai)", and two others whose file names are "WHENBABY" and "SICILIAN". Bruce also added, what I call a two-part file, "FAIR1" and "FAIR2". For those familiar with A.M.S., by using a tape recorder it is possible to get 8 or more voices to play at one time. So "FAIR1" would be recorded. And then played back with "FAIR2" synchronized with it. Which reminds me that Lee Actor contributed a two-part file. The names are "GABR1" and "GABR2". Because tape recording is required for these files, I usually don't include them in copy requests unless specifically asked for. My contributions this month are "Bibbidi-Bobbidi-Boo", "The Unbirthday Song", "Don't It Make My Brown Eyes Blue", and "Hail to the Chief". Anyone who has some music to add to the library, please bring the files to the next meeting.

Speaking of the next meeting, I'll be giving a tutorial and a question & answer session at 6:00 PM before the meeting. If you have been considering a music program purchase, this would be an excellent opportunity to see if A.M.S. would fit your needs.

TREASURER'S REPORT ON CLUB PROPERTY 7/15/83

PROPERTY	COST	PURCHASE DATE
File Manager 800	59.97	01/31/82
ACE Program Library	79.80	03/23/82
TAIG Stamp & Pad	6.61	07/19/82
Atari 400	208.95	08/11/82
48K RAM Bd, Pwr Supply, & 2 Joysticks	210.00	08/29/82
19" Magnavox TV	334.95	08/29/82
Radio Shack PA System	111.30	02/12/83
Atari 400	137.27	03/03/83
Basic Cartridge	38.40	03/03/83
19" Samsung TV	276.54	03/05/83
52K RAM Board	111.00	03/13/83
Pwr Strip & Ext Cord	20.00	04/24/83
TOTAL PURCHASES	1594.79	

For Sale: Pioneer Reverb-\$30, Zaxxon
 Cassette-\$25. Fred, 559-5857, Plymouth.

612-542-1027



SUMMER SALES

3546 Pilgrim Lane
 Plymouth, MN 55441

RANA disk drives are finally being shipped! My order of 10 was placed so long ago I was told I will get the first drives in the cities. My original pricing of \$315 still stands, but this will go up later (RANA is raising prices up to ATARI's). If you want a drive, please give me a call ASAP so I can add it to my order (Aug. delivery.) The drives come set up in single density mode, but a chip allowing double density will be shipped (free & I will install free) at the end of August. See this drive in the last ANTIC for more info (or call me).

CARTDISK+ is now available to everybody for \$25. An assembly code program called SCANFIX+ is included free with CARTDISK+. SCANFIX+ allows you to edit, trace, and search cartridge data, as well as auto-search and destroy most protection mechanisms. CARTDISK+ is for the beginner or expert and is available mail order (add \$1.25 for postage). Preliminary version owners, this is available for the \$5.00 update fee (plus p&h).
 Send Check/MO to: SOFT UNLIMITED
 3546 Pilgrim LN, Plymouth, MN 55441
 Phone: 612-542-1027

...Earth to ATARI
By TRB

Stop reading this if you believe ATARI is currently well organized and producing well planned products or you may be offended by this article.

Come in ATARI...Do you read me? After seeing what happened with the 1200, you would think that the current lineup of ATARI products would reflect some of the lessons learned with the 1200. But no, ATARI is still concerned with furthering their distorted view of a standalone system (incompatible and unable to communicate, poor third party software support, and an unrealistic attitude that only ATARI hardware should be used on ATARI computers.) People who say that ATARI is breaking out of this mold with their recent announcements that you can upgrade to 400 to 48K (with an ATARI memory upgrade, of course) and that the 1400XL series will have a back plane connector (for CPM, faster disk access, etc.) should keep in mind that both of these capabilities existed earlier with third party hardware on the 400/800 series. All this points out is the drastic need for third party support. If you had to wait for ATARI, you would still be waiting and the cost wouldn't be so attractive when it arrived.

When I first saw the announcement of the new hardware configuration and the possible pricing structure, I was very impressed and figured that the 1400XLD would be my second computer. After sitting back and analyzing the situation, though, I am not so sure any more. From what I hear, the 1400XL series will be compatible with all ATARI released software. I have also heard that OS/A+ probably won't run on them. This is worse than what we saw with the 1200. Also, the new 1050 disk drives sounded very attractive for only \$450 retail, but their double density turns out to be no more than an enhanced single density (i.e. instead of having 720 sectors of 128 bytes each, you now will have 1000 sectors of 128 bytes each.) This means that now the ATARI single density mode will now support as much data as most other computers do in single density, but keep in mind that only a few applications will actually find this extra space usable.

I have heard some complaints that the new computers will be more prone to mechanical wear and tear, but that is to be expected. How else is the price going to come down. I

expect they will be constructed better than the 1200, however, and that is better constructed (or quality controlled) than the C64 appears to be.

The new peripherals for the ATARI look good. The remote control joysticks will be nice if the price is right, but I think I will stick with my WICO trackball and my KOALA PAD tablet unless the new ATARI counterparts offer new features. The 1010 cassette looks nice and compact and supposedly is more reliable. The printers look very slow, to be expected for letter quality and color graphics, but a high speed capability is very important to us programmers. One product missing from the lineup of new hardware is the equivalent of the 850 interface. I hope ATARI isn't saying that just because you buy a computer from them you also have to buy ATARI serial port printers/modems. If this is the case, then they had better start building printer buffers, high speed printers, and 1200 baud modems and at a competitive price or we can expect our cost of WARNER records to go up another dollar.

I hear that all is not well in the area of distributor support, either. With stores like Target and Labells selling computers and peripherals at prices that are near or even below our dealer cost, a lot of local dealers are cooling off on the prospect of stocking the new hardware (when I put a system together for people, I usually tell them which products to buy from Target and which ones I will get for them). Supposedly the 1400XL series will be price protected and kept out of discount stores (maybe a good idea, but I think it will reduce the number of sales). But don't worry. Software is where the profit is and that will keep most of us dealers in business for quite some time.

Now that you have heard my gripes, I have a few comments to add on what I would have liked to see in the new 1400XL. First, a base cost of around \$1000. I know that seems a little high, but ATARI already has a decent product out for the lower end (the 600/800XL series.) In this price range, a 16 bit processor would be nice, 128K memory, 48K graphics dedicated memory (with paging into the 128K region), one RS-232 and one parallel port, RGB & composite output, 40-132 column capability built-in, 4 joystick ports, mass bus expansion slots, system monitor (instead of wasting ROM on diagnostics), 4 meg or greater CPU speed,

enhanced music capabilities (16 voices, maybe using chips similar to those in the C64), voice input and output capacity, and enhanced resolution PM graphics capability. Obviously, some of these features could be listed as options, but I think you will see that the price is reasonable and the product would be sufficiently ahead of the competition to warrant its introduction. The 1400XL just doesn't have enough new features going for it. Maybe ATARI can use their new LISP (Symbolics) machines to design a new generation of chips to support our needs, but I thought that was what they were doing over the last four years.

FROM THE EDITOR

BY Todd Burkey

Well, it has been a busy month for me, so I wasn't too broken up by the small amount of games that were released. I did have a hard time scheduling the newsletter editing and pasteup, so this may be another newsletter that gets to you just before the meeting. I must emphasize again to everyone that submits articles to be sure everything is formatted for a left margin of 0 and a right margin of 44-50. If it isn't, I virtually have to type the whole article in myself.

I still need someone to take on the responsibility of obtaining advertizers and then making sure they pay up. I quit doing this about 2 months ago (when we went from 4-6 pages of ads to the 2-3 we have today). Advertizing is the only way we are going to keep the membership costs of the club down (over the period of a year, 2-4 pages lost is \$600-\$1200!) If anyone has any interest in this job, contact Phil Seifert at the next meeting (I may not be able to make it again.)

EDUCATIONAL NOTES

BY JEANETTE WALSH

In addition to the regular disk of the month, an educational disk will be available at the next meeting for the cost of \$4.00. Following is a list of the programs included on the disk. We've tried to include programs for all age levels.

PRESCHOOL 1 Colors, Shapes, Matching Objects and Counting. Preschool level.

PRESCHOOL 2 Matching letters on the screen to the computer keyboard.

STATES Guess States or capitals of the U.S. A map is drawn on the screen.

BOUNBARN 9 levels of subtraction problems in a game format.

MATHKIDS Add. Sub. Mult. Div. Problems. Suitable all ages.

MATHQUIZ Add., Sub., Mult., Div. problems. Can change difficulty level.
 METRICS Converts metric measurements to standard and standard to metric.
 NUMLINE Fill in numbers in a number line.
 PREMATH Add., Sub., or Counting. Correct answer will add car to a train.
 CONCENT. Concentration game which builds child's memory.
 SPELLBEE Input your own spelling words. Computer mixes them up-words flash on screen-you try to spell them.
 WORD FIND Create your own word puzzles. Printer is needed.
 BEGINTYPE Drills on typing.

We would also like to compile a list of people who have educational programs. These names will be used as a resource list. Members considering buying a program could contact someone to find out their impressions. If you own any educational software, please give your name, phone #, the name of the program, grade level it would be for and what subject it covers to Jeanette Walsh at the next meeting or call her at 445-5468.

Software Sales Tax Update

By Mike Doleman

Reach for the grease and bend over again. That's the message from the Department of Revenue, who have argued their case to the legislature and now say that ALL canned computer software is taxable. This is not to say that it was taxable previous to July 1.

The same bill that makes it possible to pay more sales tax on autos has redefined canned software as tangible personal property. This of course renders all my efforts on behalf of software buyers not to have to pay sales tax as in vain. However, just for the record, for anyone doubting whether a refund of sales tax is due those who purchased "applications" software prior to July 1, let me quote the Department of Revenue; "We have reviewed the programs listed in your letter (programming languages, utilities, data bases, music composer programs, art composer programs, number crunchers, operating system enhancements, documentation, and in general programs) and have determined that they are application programs. As such they are not taxable." This is prior to July 1 when the magic wand of the legislature transmuted intangible to tangible. As you can see from the next paragraph, there is apparently still a category of software that is not taxable; "Incidentally, effective July 1, 1983, the sale of packaged or canned

computer software is taxable. Computer software is defined to mean information and directions which dictate the function to be performed by data processing equipment, and which is sold without adaptation to the specific requirements of the purchaser."

This apparently means that any of you programmers out there do not have to worry about collecting tax for the state on any software with adaptations to a specific requirement which you have written for a client.

I will now ride off into the sunset, defeated by those sorcerers bureaucratic and legistic.

RESOURCE LIST BY BILL NORDSTROM

At the June TAIG meeting, an idea was brought up to have a "resource pool" available to members. If you feel you are an "expert" or quite familiar with one of the following areas, we would ask that you volunteer your name to be added to the following list. The purpose of this resource pool is to help fellow members with problems or questions they may have, in the area you feel knowledgeable about. if you would like to help out, please call Bill Nordstrom at 475-1475.

AREA	NAME
----	----
General	
Dealers	
Furniture	
Hardware	
Computers	Steve Crowley Lance Welch
400	
800	
1200	
600XL	
800XL	
1400XL	
1400XLD	
Disk Drives	
810 Atari	
1050 Atari	
Percom	
Rana	Todd Burkey
xxxxxxxxxx	
Printers	
Epson	
Dkidata	
Prowriter	Tom Moore
Atari 1020	

Continued on back page...

HARDWARE at prices others try to meet!

•• Rana 1000 •• Disk Drive

List 449.95 computer
FOOD
price
\$320

ETA DATE 8/10/83

See me at the meeting or call
to reserve yours.

other hardware

1050	Disk Drive	\$ 354.00
600XL	Computer	160.00
1027	Printer	276.00
Prowriter	8510AP	395.00

SOFTWARE SALE

Our regular everyday prices on
Software are lower than other
stores so-called Sale Prices.

That's why when we have a sale
it's impossible to beat these
prices! ANYWHERE!

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QIX	/R 29.80	CANYON CLIMBER /D	18.97
MINER 2049ER	/R 30.97	FINAL FLIGHT /D	18.97
FLOYD OF JUNGLE/D	18.97	SLIME	/R 22.97
ASTRO CHASE	/D 18.97	ZORK I OR II /D	24.97
TURMOIL	/R 21.97	CLOWNS & BALLON/D	15.97
PACIFIC COAST H/D	15.97	SEAFOX	/D 18.97
RICOCHET	/D 10.97	SHAMUS I	/D 17.97
FROGGER	/C 21.97	STELLAR SHUTTLE/D	15.97
PICNIC PARANOIA/R	24.97	MICRO PAINTER /D	21.97

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PM ANIMATOR	/D 25.97	SHADOW WORLD /C/D	25.97

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IT CONTAINS (ALMOST) EVERY PROGRAM FROM A-Z EVER
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A SINGLE MORE COMPLETE LIST, ANYWHERE.
PICK ONE UP FROM ME AT THE NEXT TAIG MEETING.

computer
FOOD

See you at the next TAIG meeting
or call 560-2917 to order

Questions and Answers By BBB

After a much-needed vacation, here I am back in Minnesota. I currently have 2 questions submitted from people, one of which will be answered in my column this month. Needless to say, I could use more questions, so feel free to give me a phone call, write a letter, or stop by and see me at the TAIG meeting if you have a question that needs an answer. Remember, there is no such thing as a silly question, just a silly answer.

Last month I published a question, but did not include an answer for it. Thanks to the help of another TAIG member, I now have the answer. A program was printed in the September 1981 issue of MICRO that allows the Atari to simultaneously print out to the screen and the printer. I typed the program into the computer and found that it worked quite nicely. Therefore, following is a listing of the program. I hope this answers the original question and is a satisfactory solution.

The second question I received was causing me much difficulty. I researched everyone in the Cities who might have an answer or could direct me to an answer. However, I drew a complete blank. The question is what is and how do you use the Ward Christianson Modem Transfer Protocol. The person who submitted the question would like to use it in writing a program, so he needs some fairly specific information. Then, I found out that the Ward Christiansen Protocol was the same as the Xmodem protocol (developed for CP/M file transfer and recently utilized on the ATARI in terminal programs). This protocol is one of the standards now on personal computers, because it is one of the only public domain file transfer protocols available. My husband knows another member of the club who will pull a description of the protocol off of the Honeywell Multics system and reprint relevant portions of the description in this or next month's newsletter.

Once again, Dennis Parker, thank you for your assistance in answering the first question. Anyone else having possible answers or solutions to questions published in the newsletter, please let me know. I may not be able to get at the answer, and even if I do answer a question, it might not be the only or the best answer. If you have another answer, I will certainly give you equal time.

Note: If you are daring, change all data statements that equal 6 to 1's and set MLPRG to 256. This will place the code in a region of the 6502 stack that is rarely used. Also, it allows you to use the program with other programs that use page 6. You can also go to DOS after running this program, do a binary save to AUTORUN.SYS, and you will have it automatically loaded for you next time you boot up with the disk.

```

12 REM + BASIC PROGRAM TO SETUP +
13 REM + MACHINE LANGUAGE ROUTINE +
14 REM + THAT WILL +
15 REM + TRAP SCREEN INPUT / OUTPUT +
16 REM + & JOURNAL IT TO A PRINTER +
17 REM + JOHN ELLIOTT MAY '81 +
22 DIM HEX$(3)
24 MLPROG=1536:REM PAGE 6 ADDRESS
26 GRAPHICS 0
28 POKE 752,1:REM CURSOR OFF
30 ? :? "LOADING JOURNAL":?
35 REM
36 REM ++++++
37 REM + SETUP MACHINE LANGUAGE PGM +
38 REM ++++++
39 REM
40 FOR ADDR=MLPROG TO MLPROG+1024
45 READ HEX$:SOUND 0,ADDR-MLPROG,10,4
50 IF HEX$="END" THEN POP :GOTO 80
55 HI=ASC(HEX$(1,1))-48
60 IF HI>9 THEN HI=HI-7
65 LO=ASC(HEX$(2,2))-48
70 IF LO>9 THEN LO=LO-7
75 POKE ADDR,HI*16+LO:NEXT ADDR
80 REM
81 REM ++++++
82 REM + DISPLAY INSTRUCTIONS +
83 REM ++++++
84 REM
85 ? "JOURNAL LOADED":? :POKE 752,0
90 ? "TO INITIATE JOURNALLING TYPE :?"
95 ? :? "X=USR(";MLPROG;")"
100 REM
101 REM ++++++
102 REM + HEXADECIMAL M/L PROGRAM +
103 REM ++++++
104 REM
105 DATA A0,0F,B9,00,E4,99,83,06
110 DATA 88,10,F7,A9,83,8D,21,03
115 DATA A9,06,8D,22,03,A9,4A
120 DATA 8D,89,06,8D,46,03,A9,06
125 DATA 8D,8A,06,8D,47,03,A9,33
130 DATA 8D,87,06,A9,06,8D,88,06
135 DATA 85,08,6C,FA,BF,8D,92,06
140 DATA 20,3F,06,20,60,06,D0,17
145 DATA AD,05,E4,48,AD,04,E4,48
150 DATA AD,92,06,60,20,60,06
155 DATA AD,07,E4,48,AD,06,E4,48
160 DATA AD,92,06,AE,93,06
165 DATA AC,94,06,60,8D,92,06
170 DATA 8E,93,06,8C,94,06,C9,20
175 DATA 90,15,AD,37,E4,48,AD,36,E4
180 DATA 48,AD,92,06,C9,7D,F0,04
185 DATA C9,9C,D0,02,A9,9B,60
190 DATA END

```



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8711 Black Maple Dr. Eden Prairie, MN 55344

...Continued from page 5
 Atari 1025 Mark Newman
 Atari 1027
 Cassette Drives
 410 Rich Christian
 1010
 Monitors
 B&W
 Color Todd Burkey
 Interface
 850 Jim Glish
 ATR8000
 Modem
 840 Jim Dahlberg
 1030
 1200 Baud Todd Burkey
 SOFTWARE
 Games Phil Seifert
 Adventure Mike Porter
 Arcade
 Business
 Data base
 Filemanager Bill Nordstrom
 File Fax Phil Seifert
 Todd Burkey
 Data Perfect Bruce Lentz
 Mark Smith
 Gordy Landsberg
 CCA
 Word Processing
 Atari Writer David Larson
 Atari W.P.
 Text Wiz Greg Voss

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Letter Perfect Linda Owens
 Visicalc Greg Voss
 William Nordstrom
 Inventory
 Point of Sale
 Payroll
 Home Finance
 Financial Wiz Jeanette Hoveland
 Home Accountant
 Languages
 BASIC Dale Pantan
 Atari
 OS/A+
 compiled
 Pilot/Logo Mike Ryan
 Assembler
 Atari
 Atari Macro
 Mac 65
 Forth
 Pascal
 C
 Lisp
 ACTION
 BASM
 Music Mike Davis
 Education Bill Nordstrom
 Operating Systems
 OS/A+
 ATARI
 CPM
 Utilities

TWINCITY ATARI INTEREST GROUP
 6824 QUEEN AVE. S.
 RICHFIELD, MN 55423



Next TAIG Meeting:
 Sunday, July 31, 1983
 Swap Meet - 5:00 P.M.
 P/M Graphics - 6:00 P.M.
 Music Tutorial - 6:00 P.M.
 TAIG - 7:00 P.M.

Odd Fellow's Lodge
 3003 27th Ave. S.
 Mpls, MN